BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer -yelahanka Division

Detailed Estimate

Name of the Work Asphalting and improvements to roads atVenkatala in ward No- 01 of yelahanka sub division.

Estimate Amount : 6000000.00

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	CIVIL WORKS								
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3)								
	(Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
		Sqm							
	Basic rate	76.00							
	Area Wieght age @ 6%	4.56							
	Total Rate in Rs	80.56							
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	LHS								
	Ch: (0 - 25)		1	25	0.75		18.75		
	Ch: (36 - 64)		1	28	0.75		21.00		
	RHS								
	Ch: (0 - 64)		1	64	0.75		48.00		
	1st Main road from NH-7 to Dead end								
	LHS								
	Ch: (111 - 138)		1	27	0.75		20.25		
	RHS								
	Ch: (103 - 138)		1	35	0.75		26.25		
	Cross Road 1 from 1st main road to 2nd main road								
	LHS								
	Ch: (0 - 21)		1	21	0.75		15.75		
	Ch: (50 - 121)		1	71	0.75		53.25		
	RHS								
	Ch: (0 - 21)		1	21	0.75		15.75		
	Ch: (50 - 121)		1	71	0.75		53.25		
	5th cross venkatala road from 2nd main Venkatala to dead end								
	LHS								
	Ch: (0 - 117)		1	117	0.75		87.75		
	RHS								
	Ch: (0 - 38)		1	38	0.75		28.50		
	Ch: (44 - 99)		1	55	0.75		41.25		
	cross road from5th cross to dead end								
	LHS								
	Ch: (0 - 38)		1	38	0.75		28.50		
	RHS								
	Ch: (0 - 38)		1	38	0.75		28.50		
	4th cross road from 2nd main road to dead end								
	LHS								
	Ch: (0 - 39)		1	39	0.75		29.25		
	RHS								
	Ch: (0 - 39)		1	39	0.75		29.25		
	2nd cross road from 2nd main road to dead end								
	RHS								
	Ch: (0 - 40)		1	40	0.75		30.00		
							575.25		
	Deduction for damaged 40%						**-230.10**		
							345.15	**80.56**	**27805.28**
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	(Page No142., I.No.19.1 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	82.00							
	Area Wieght age @ 6%	4.92							
	Total Rate in Rs	86.92							
	Desilting								
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	LHS		1	64	0.45	0.600	17.28		
	Ch: (0 - 64)								
	RHS		1	64	0.45	0.600	17.28		
	Ch: (0 - 64)								
	1st Main road from NH-7 to Dead end								
	LHS		1	138	0.45	0.600	37.26		
	Ch: (0 - 138)								
	RHS		1	138	0.45	0.600	37.26		
	Ch: (0 - 138)								
	Cross Road 1 from 1st main road to 2nd main road								
	LHS		1	121	0.45	0.600	32.67		
	Ch: (0 - 121)								
	RHS		1	121	0.45	0.600	32.67		
	Ch: (0 - 121)								
	5th cross venkatala road from 2nd main Venkatala to dead end								
	LHS		1	117	0.45	0.600	31.59		
	Ch: (0 - 117)								
	RHS		1	99	0.45	0.600	26.73		
	Ch: (0 - 99)								
	cross road from5th cross to dead end								
	LHS		1	38	0.45	0.600	10.26		
	Ch: (0 - 38)								
	RHS		1	38	0.45	0.600	10.26		
	Ch: (0 - 38)								
	4th cross road from 2nd main road to dead end								
	LHS		1	39	0.45	0.600	10.53		
	Ch: (0 - 39)								
	RHS		1	39	0.45	0.600	10.53		
	Ch: (0 - 39)								
	2nd cross road from 2nd main road to dead end								
	RHS		1	40	0.45	0.600	10.80		
	Ch: (0 - 40)								
							285.12	86.92	24782.63
3	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-								
	Data rate								
		Sqm							
	Total Rate in Rs for damaged drain	1757.00							
							230.10		
	Sub total-1						230.10	1757.00	404285.70
	ROAD WORKS								456873.61
4	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	(Page No 143., I.No.19.14 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	46.00							
	Area Wieght age @ 6%	2.76							

Asst. Executive Engineer
Yelahanka Sub. Divison

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Total Rate in Rs	48.76							
	new contruction								
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	Ch: (0 - 64)		1	64	4.30	0.425	116.96		
	1st Main road from NH-7 to Dead end								
	Ch: (0 - 138)		1	138	4.00	0.425	234.60		
	Cross Road 1 from 1st main road to 2nd main road								
	Ch: (0 - 21)		1	21	4.40	0.425	39.27		
	2nd Main road from NH-7 to dead end								
	Ch: (0 - 235)		1	235	4.90	0.425	489.39		
	5th cross venkatala road from 2nd main Venkatala to dead end								
	Ch: (0 - 117)		1	117	4.30	0.425	213.82		
	cross road from5th cross to dead end								
	Ch: (0 - 38)		1	38	5.70	0.425	92.06		
	4th cross road from 2nd main road to dead end								
	Ch: (0 - 39)		1	39	4.70	0.425	77.90		
	2nd cross road from 2nd main road to dead end								
	Ch: (0 - 40)		1	40	4.00	0.425	68.00		
	Road cutting								
			1	310	1.80	0.425	237.15		
							1569.14	**48.76**	**76511.39**
5	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material **(Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	*1571.00*							
	Area Wieght age @ 6%	*94.26*							
	Total Rate in Rs	*1665.26*							
	new contruction								
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	Ch: (0 - 64)		1	64	4.30	0.150	41.28		
	1st Main road from NH-7 to Dead end								
	Ch: (0 - 138)		1	138	4.00	0.150	82.80		
	Cross Road 1 from 1st main road to 2nd main road								
	Ch: (0 - 21)		1	21	4.40	0.150	13.86		
	2nd Main road from NH-7 to dead end								
	Ch: (0 - 235)		1	235	4.90	0.150	172.73		
	5th cross venkatala road from 2nd main Venkatala to dead end								
	Ch: (0 - 117)		1	117	4.30	0.150	75.47		
	cross road from5th cross to dead end								
	Ch: (0 - 38)		1	38	5.70	0.150	32.49		
	4th cross road from 2nd main road to dead end								
	Ch: (0 - 39)		1	39	4.70	0.150	27.50		
	2nd cross road from 2nd main road to dead end								
	Ch: (0 - 40)		1	40	4.00	0.150	24.00		
							470.12	**1665.26**	**782863.70**

Asst. Executive Engineer
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(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
6	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
	(Page No 158., I.No.20.18 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*1668.00*							
	Area Wieght age @ 6%	*100.08*							
	Total Rate in Rs	*1768.08*							
	new contruction								
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	Ch: (0 - 64)		1	64	4.30	0.225	61.92		
	1st Main road from NH-7 to Dead end								
	Ch: (0 - 138)		1	138	4.00	0.225	124.20		
	Cross Road 1 from 1st main road to 2nd main road								
	Ch: (0 - 21)		1	21	4.40	0.225	20.79		
	2nd Main road from NH-7 to dead end								
	Ch: (0 - 235)		1	235	4.90	0.225	259.09		
	5th cross Venkatala road from 2nd main Venkatala to dead end								
	Ch: (0 - 117)		1	117	4.30	0.225	113.20		
	cross road from5th cross to dead end								
	Ch: (0 - 38)		1	38	5.70	0.225	48.74		
	4th cross road from 2nd main road to dead end								
	Ch: (0 - 39)		1	39	4.70	0.225	41.24		
	2nd cross road from 2nd main road to dead end								
	Ch: (0 - 40)		1	40	4.00	0.225	36.00		
	Road cutting								
			1	310	1.80	0.250	139.50		
							844.67	**1768.08**	**1493448.55**
7	KSRB 2.6 : Providing and filling dust in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications. specification. No. KBS 2.10.2,								
	(Rate Analysis)								
	Arrived rate	*Cum.* *1118.30*							
	Road cutting								
			1	310	1.80	0.400	223.20		
							223.20	**1118.30**	**249604.56**
8	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502								
	(Page No 161., I.No.21.6 of KPWD S.R 2016-17).								
		Sqm							
	Basic rate	*26.00*							
	Area Wieght age @ 6%	*1.56*							
	Total Rate in Rs	*27.56*							
	new contruction								
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	Ch: (0 - 64)		1	64	4.30		275.20		
	1st Main road from NH-7 to Dead end								
	Ch: (0 - 138)		1	138	4.00		552.00		
	Cross Road 1 from 1st main road to 2nd main road								

Asst. Executive Engineer
Yelahanka Sub. Divison

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Ch: (0 - 21)		1	21	4.40		92.40		
	2nd Main road from NH-7 to dead end								
	Ch: (0 - 235)		1	235	4.90		1151.50		
	5th cross Venkatala road from 2nd main Venkatala to dead end								
	Ch: (0 - 117)		1	117	4.30		503.10		
	cross road from5th cross to dead end								
	Ch: (0 - 38)		1	38	5.70		216.60		
	4th cross road from 2nd main road to dead end								
	Ch: (0 - 39)		1	39	4.70		183.30		
	2nd cross road from 2nd main road to dead end								
	Ch: (0 - 40)		1	40	4.00		160.00		
							3134.10	27.56	86375.80
9	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **(Page No 161., I.No.21.7 of KPWD S.R 2016-17).**								
	Basic rate	*11.00*							
	Area Wieght age @ 6%	*0.66*							
	Total Rate in Rs	*11.66*							
	new contruction								
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	Ch: (0 - 64)		1	64	4.30		275.20		
	1st Main road from NH-7 to Dead end								
	Ch: (0 - 138)		1	138	4.00		552.00		
	Cross Road 1 from 1st main road to 2nd main road								
	Ch: (0 - 21)		1	21	4.40		92.40		
	2nd Main road from NH-7 to dead end								
	Ch: (0 - 235)		1	235	4.90		1151.50		
	5th cross Venkatala road from 2nd main Venkatala to dead end								
	Ch: (0 - 117)		1	117	4.30		503.10		
	cross road from5th cross to dead end								
	Ch: (0 - 38)		1	38	5.70		216.60		
	4th cross road from 2nd main road to dead end								
	Ch: (0 - 39)		1	39	4.70		183.30		
	2nd cross road from 2nd main road to dead end								
	Ch: (0 - 40)		1	40	4.00		160.00		
							3134.10	11.66	36543.61
10	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 **(Page No 163., I.No.21.17.6 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	*6071.00*							
	Area Wieght age @ 6%	*364.26*							
	Total Rate in Rs	*6435.26*							
	new contruction								
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	Ch: (0 - 64)		1	64	4.30	0.050	13.76		

Asst. Executive Engineer
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(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	1st Main road from NH-7 to Dead end								
	Ch: (0 - 138)		1	138	4.00	0.050	27.60		
	Cross Road 1 from 1st main road to 2nd main road								
	Ch: (0 - 21)		1	21	4.40	0.050	4.62		
	2nd Main road from NH-7 to dead end								
	Ch: (0 - 235)		1	235	4.90	0.050	57.58		
	5th cross venkatala road from 2nd main Venkatala to dead end								
	Ch: (0 - 117)		1	117	4.30	0.050	25.16		
	cross road from5th cross to dead end								
	Ch: (0 - 38)		1	38	5.70	0.050	10.83		
	4th cross road from 2nd main road to dead end								
	Ch: (0 - 39)		1	39	4.70	0.050	9.17		
	2nd cross road from 2nd main road to dead end								
	Ch: (0 - 40)		1	40	4.00	0.050	8.00		
							156.71	**6435.26**	**1008437.42**
11	KSRRB M500- 19 Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 165., I.No.21.22.6 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	***6859.00***							
	Area Wieght age @ 6%	***411.54***							
	Total Rate in Rs	***7270.54***							
	new contruction								
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	Ch: (0 - 64)		1	64	4.30	0.030	8.26		
	1st Main road from NH-7 to Dead end								
	Ch: (0 - 138)		1	138	4.00	0.040	22.08		
	Cross Road 1 from 1st main road to 2nd main road								
	Ch: (0 - 21)		1	21	4.40	0.030	2.77		
	2nd Main road from NH-7 to dead end								
	Ch: (0 - 235)		1	235	4.90	0.040	46.06		
	5th cross venkatala road from 2nd main Venkatala to dead end								
	Ch: (0 - 117)		1	117	4.30	0.040	20.12		
	cross road from5th cross to dead end								
	Ch: (0 - 38)		1	38	5.70	0.030	6.50		
	4th cross road from 2nd main road to dead end								
	Ch: (0 - 39)		1	39	4.70	0.030	5.50		
	2nd cross road from 2nd main road to dead end								
	Ch: (0 - 40)		1	40	4.00	0.030	4.80		
							116.09	**7270.54**	**844029.72**
12	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 4kms. **.(Refer Table, Page No.140)**								
		Cum.							
	Basic rate	***80.80***							
	Total Rate in Rs	***80.80***							

Asst. Executive Engineer
Yelahanka Sub. Divison

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
			For item no		2		285.12		
			For item no		4		1569.14		
							1854.26	80.80	149824.41
	Sub total-1								4727639.16
	ROAD FURNITURES								
13	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 185, I.No.24.15 of KPWD S.R 2016-17).								
		Sqm							
	Basic rate	512.00							
	Area Wieght age @ 6%	30.72							
	Total Rate in Rs	542.72							
	Road Marking								
	new contruction								
	Cross Road (Ganapathi temple Road) from NH-7 to 1st main road								
	Ch: (0 - 64)		2	5 64	0.15		24.00		
	1st Main road from NH-7 to Dead end								
	Ch: (0 - 138)		2	5 138	0.15		51.75		
	Cross Road 1 from 1st main road to 2nd main road								
	Ch: (0 - 21)		2	5 21	0.15		7.88		
	2nd Main road from NH-7 to dead end								
	Ch: (0 - 235)		2	5 235	0.15		88.13		
	5th cross venkatala road from 2nd main Venkatala to dead end								
	Ch: (0 - 117)		2	5 117	0.15		43.88		
	cross road from5th cross to dead end								
	Ch: (0 - 38)		2	5 38	0.15		14.25		
	4th cross road from 2nd main road to dead end								

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Ch: (0 - 39)		2.5	39	0.15		14.63		
	2nd cross road from 2nd main road to dead end								
	Ch: (0 - 40)		2.5	40	0.15		15.00		
							259.50	542.72	140835.84
	Sub Total-3								140835.84
	Total								5325348.61
14	Cost towards Preperation of DPR,PMC/QC @ 3%								159760.46
15	Cost of Plastic@8% of bitumen qty for BC	Kg	1	1309.48				27.00	35356.07
16	Cost towards KIRDL Charges @ 9%								479281.38
17	Miscllenous and other charges								253.49
	Grand Total								6000000.00

Certificate:-

1. That the workspot has been inspected and provisions made in the estimate are adequate and necessary
2. Work spot comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That estimate is based on the PWD SR of 2016-17
4. The work is not split up
5. These works are not taken up in any grants and free from defect liability period
6. Earlier improvements taken up in the proposed roads are recorded in road history

Consultant:
For M/s Mecadez core technologies pvt ltd

Asst. Engineer
Ward No:1
BBMP

AEE
yelahanka sub division

Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Executive Engineer
yelahanka division
BBMP

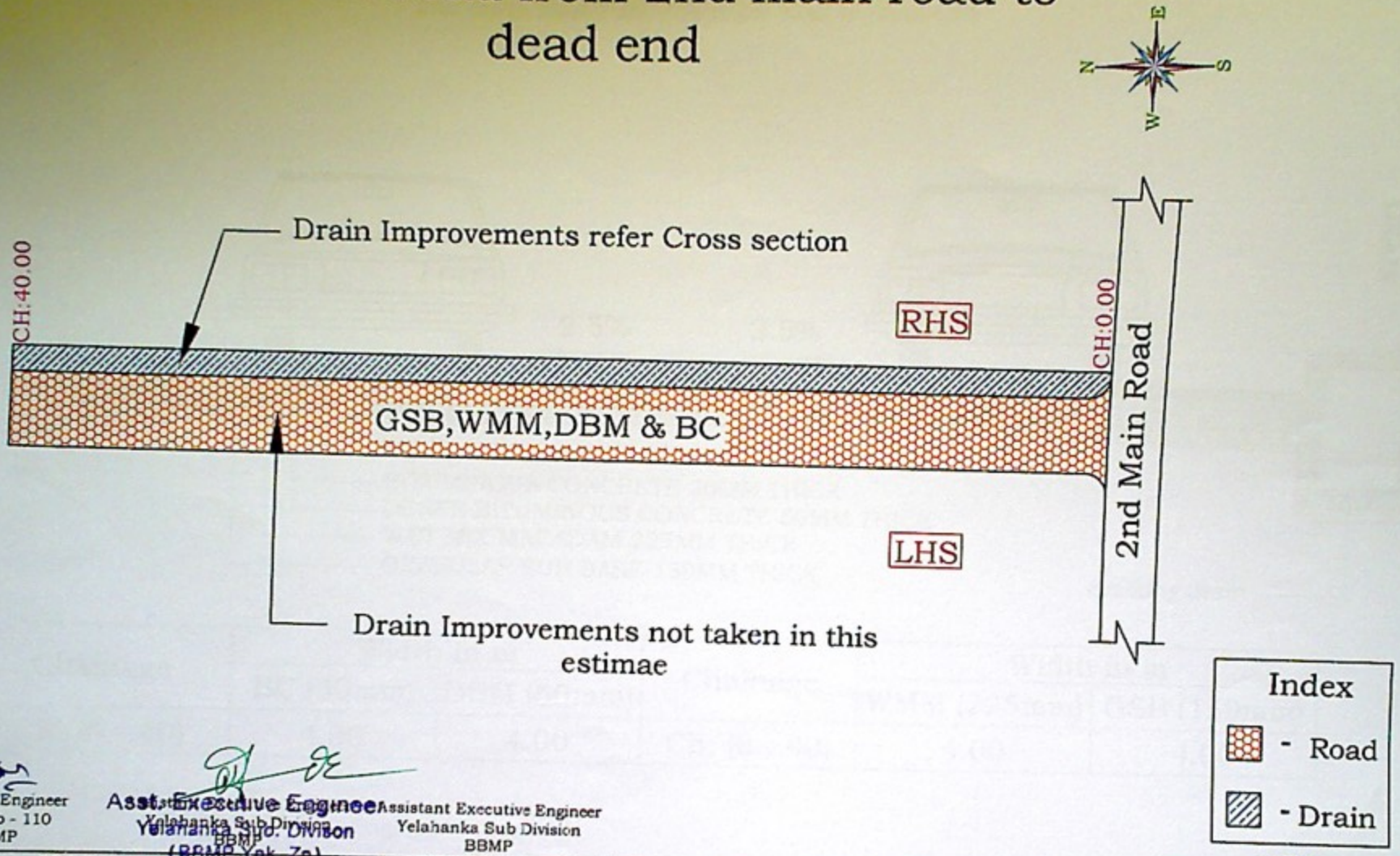
Administrative Sanction for Rs. 60.00 lacs
Sixty Lacs only
is accorded under head P.3089
2015-16
Registered as CE No. ..... Subject
to conditions contained in enclosed memo
No. CE/AS/76/16-17 Dt. 28.3.17
Executive Engineer

Technical Sanction
Accorded For 60.00 lacs
Head of A/C P3089
CER NO : 192 Dt: 24/03/17

TA

CE (YNK),

2nd Cross road from 2nd main road to dead end



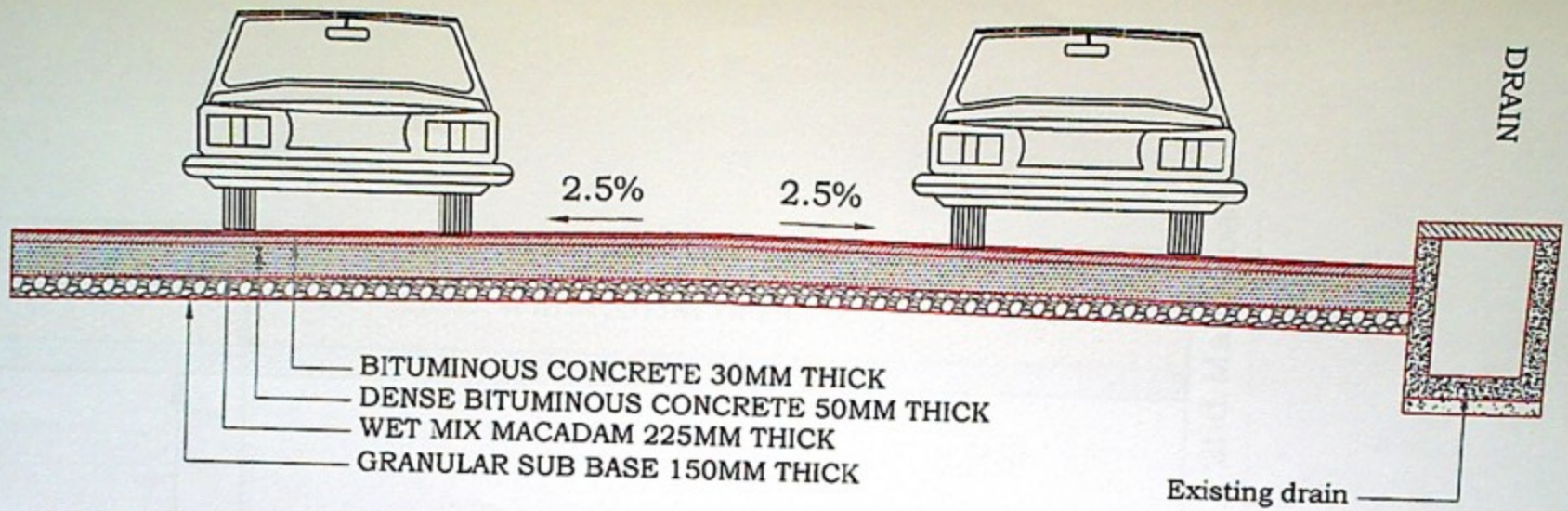
Assistant Engineer
Ward No - 110
BBMP

Asst. Executive Engineer
Yelahanka Sub Division
BBMP
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

PROJECT NAME	DRAWING TITLE		CONSULTANTS
Asphalting and improvements to roads atVenkatala in ward No- 01 of yelahanka sub division.	Strip Plan	BRUHAT BENGELURU MAHANAGARA PALIKE	M/s. Mecadez Consultancy Services Private Limited Project Management and Consultancy No.102, 1st Main Road, Jayanagar, Nagadevanahalli Road, Kottigepalya, Bangalore

2nd cross road from 2nd main road to dead end



Chainage	Width in m		Chainage	Width in m	
	BC (30mm)	DBM (50mm)		WMM (225mm)	GSB (150mm)
Ch: (0 - 40)	4.00	4.00	Ch: (0 - 40)	4.00	4.00

Assistant Engineer
Ward No - 1
BBMP

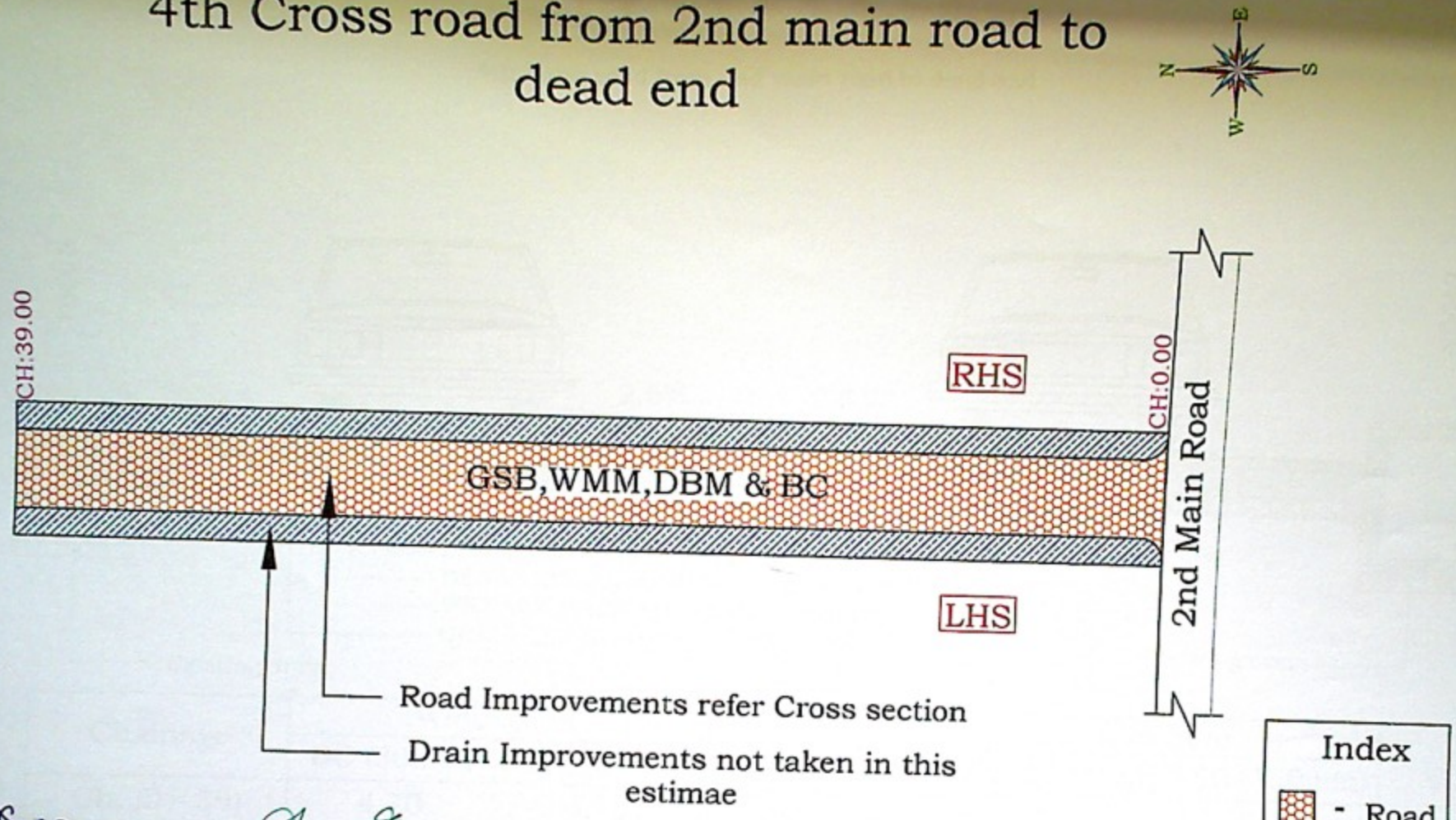
Assistant Executive Engineer
Yelahanka Sub-division

Executive Engineer
Yelahanka Division
BBMP

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

PROJECT NAME	DRAWING TITLE		CONSULTANTS
Asphalting and improvements to roads at Venkatala in ward No- 01 of yelahanka sub division.	Cross section	BRUHAT BENGELURU MAHANAGARA PALIKE	M/s. Mecadex Core Technologies Private Limited Project Management and Consultancy No.103, 3rd Main Road, 3rd Cross, Magadi Main Road, Kottigepalya, Bangalore-91

4th Cross road from 2nd main road to dead end



Assistant Engineer
Ward No - 110
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

PROJECT NAME	DRAWING TITLE		CONSULTANTS
Asphalting and improvements to roads atVenkatala in ward No- 01 of yelahanka sub division.	Strip Plan	BRUHAT BENGELURU MAHANAGARA PALIKE	M/s. Mecadez Core Technologies Private Limited Project Management and Conultants